

VOZNW-B
METER, VECTOR

1. GENERAL. This procurement requires a general-purpose vector impedance meter for measuring the impedance of discrete circuit components and printed circuit board patterns.

2. CLASSIFICATION. Type II, Class 5, Style E, and Color R in accordance with MIL-T-28800 for shipboard applications.

3. OPERATIONAL REQUIREMENTS. The equipment shall be capable of impedance magnitude and phase angle measurement and display within the minimum ranges and accuracies specified below.

3.1 Frequency range. 0.5 MHz to 108 MHz. The equipment shall provide manual and automatic sweep capability throughout any portion of the specified frequency range.

3.1.1 Frequency accuracy. $\pm 2\%$ of indication.


3.2 Impedance measurement range. 1 ohm to 100 kilohms.

3.2.1 Impedance accuracy. $\pm 3\%$ of indication.

3.2.2 Impedance resolution. 200 milliohms.

3.3 Phase angle measurement range. ± 180 degrees. Resolution: 0.1 degrees.

3.3.1 Phase angle accuracy. ± 3.2 degrees.

3.4 Display resolution. At least 4 digits for frequency and 3  digits for impedance and phase.

4. GENERAL REQUIREMENTS.

4.1 Power source. MIL-T-28800 nominal power source requirements are invoked. Maximum power consumption: 150W.

4.2 Weight. 20 kg (44 lb) maximum.

4.3 Lithium batteries. Per MIL-T-28800, lithium batteries are prohibited without prior authorization. A request for approval for the use of lithium batteries, including those encapsulated in integrated circuits, shall be submitted to the procuring activity at the time of submission of proposals. Approval shall apply only to the specific model proposed.

4.4 Digital interface. A digital interface shall be provided in accordance with MIL-T-28800.